

804YB

KENDRIYA VIDYALAYA SANGATHAN HYDERABAD REGION COMMON SUMMATIVE ASSESSMENT – II

CLASS: VIII SUBJECT: MATHEMATICS

MARKS : 60 DURATION: 2 ¹/₂ HOURS

Instructions:

- 1. All questions are compulsory.
- 2. Questions 1 to 8 carries 1 mark each.
- 3. Questions 9 to 14 carries 2 marks each.
- 4. Questions 15 to 22 carries 3 marks each.
- 5. Questions 23 to 26 carries 4 marks each.

SECTION-A

A die is thrown once. The probability of getting an even number is 1. (a) $\frac{1}{6}$ $(b)^{\frac{1}{4}}$ $(c)\frac{1}{2}$ $(d)^{\frac{1}{2}}$ 2. The ratio of 10 m to 1 km is (a)1:10 (b) 10:1 (c) 1:100 (d) 100:1 The marked price of a book is ₹100. The shopkeeper gave 25% discount on it. Then, the sale 3. price of the book is (a) ₹100 (b) ₹ 25 (c) ₹125 (d) ₹75 Number of terms in the expression 5 - 3xy has 4. (a)1 (b) 2 (c) 3 (d) 4 5. 1 m³ is equal to (a)1 litre (b) 10 litres (c) 100 litres (d) 1000 litres (20+ 4 -1) X 2² is equal to 6. (a) 2 (b) 3 (c) 4 (d) 5 7. The common factor of 14a²b and 35a⁴b² is $(a)7a^{2}b$ (b) $35a^4b^2$ (c) $14a^{2}b$ $(d)a^4b^2$ 8. A point whose y-coordinate is zero and x-coordinate is 5 will lie on (a)y-axis (b)x-axis (c) origin (d) None of these

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SECTION-B

9. The weekly wages (in ₹) of 25 workers in a factory are

2130, 2135, 2110, 2135, 2136, 2169, 2145, 2120, 2160, 2132 2133, 2155, 2145, 2104, 2108, 2112, 2140, 2135, 2135, 2136, 2178, 2140, 2168, 2106, 2140

Using tally marks make a frequency table with intervals as 2100-2110, 2110-2120 and so on.

- 10. Using Euler's formula, find the number of edges in a polyhedron if the number of faces is 20 and the number of vertices is 12.
- 11. Express: (i) 0.0000000837 in standard form

(ii) 3.61492 x 10⁶ in usual form.

OR

Simplify: $\left\{ \left(\frac{1}{3}\right)^{-2} - \left(\frac{1}{2}\right)^{-3} \right\} \div \left(\frac{1}{4}\right)^{-2}$

- 12. A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?
- 13. Factorize: 15pq +15 +9q +25p
- 14. If 31z5 is a multiple of 9, where 'z' is a digit, what is the value of z?

SECTION-C

15. Draw a pie chart showing the following information. The table shows the colours preferred by a group of people.

COLOURS	NUMBER OF PEOPLE		
Blue	18		
Green	9		
Red	6		
Yellow	3		
TOTAL	36		

16. Find the product: (i) (2x+5)(4x-3) (ii) $(t+s^2)(t^2+s)$

OR

Find: (a) Add: 2x(z-x-y) and 2y (z-y-x) (b) Subtract: 3l (l-4m+5n) from 4l(10n-3m +2l)

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© www.ncerthelp.com He diameter takes 750 complete revolutions to move over to level a road. Find the area of the road if the diameter of a road roller is 84 cm and length is 1 m.

OR

The area of a trapezium is 34 cm² and the length of one of the parallel sides is 10 cm and its height is 4 cm. Find the length of the other parallel side.

18. Draw a front view, side view and top view of a solid.



19. Find the value of m for which

$$5^{m} \div 5^{-3} = 5^{5}$$

- 20. If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of the children is reduced by 4?
- 21. Divide: (i) $9x^2y^2(3z 24) \div 27xy(z 8)$

(ii) $(y^2 + 7y + 10) \div (y + 5)$

22. Find the values of the letters A, B and C and give reasons for the steps involved.

4 A + 98 <u>C B 3</u>

SECTION -D

23. A VCR and TV were bought for ₹ 8000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction.

OR

Fabina borrows ₹ 12500 at 12% per annum for 3 years at simple interest and Radha borrows the same amount for the same period at 10 % per annum, compounded annually. Who pays more interest and by how much?

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- 25. The floor of a building consists of 3000 tiles which are rhombus shaped and each of its diagonals are 45 cm and 30 cm in length. Find the total cost of polishing the floor, if the cost per m² is ₹ 4.
- 26. Draw the graph for the following table of values, with suitable scales on the axes.

Distance travelled by a car

Time (in hours)	6 a.m.	7 a.m.	8 a.m.	9 a.m.
Distance(in Km)	40	80	120	160

- (i) How much distance did the car cover during the period 7.30 a.m. to 8 a.m.?
- (ii) What was the time when the car had covered a distance of 100 Km since its start?
